

Mon, 3 Jul 2006, 9:20:26 AM EST

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Search Query Display

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#2	(((integrity<and>accuracy)<and>reliability)<AND>(satellite and gps<in>metadata))	61
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GPS integrity monitoring and system improvement with ground station and multistationary satellite support

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Abstract

The authors propose a monitoring and warning system based on ground stations capable of supporting reliable operation. The same stations can also be used for the implementation of a differential mode of operation, through the transmission of measurement corrections relevant to the tracked GPS (Global Positioning System) satellites. A combined operation of the stations is implemented in this manner. For civil aviation applications, the system operation can be enhanced with the integration of four multistationary satellites within the GPS space segment. The addition of four multistationary satellites will extend the integrity monitoring and system availability worldwide up to very high latitudes. The adoption of multistationary satellites presents valuable advantages over geostationary satellites. The results of some preliminary simulations are presented for the integrity monitoring and the system availability improvement.

Index Terms

Inspecc

Controlled Indexing

alarm systems ground support systems radionavigation satellite relay systems

Non-controlled Indexing

GPS integrity monitoring Global Positioning System civil aviation applications differential mode
ground station support measurement corrections multistationary satellite support space segment
system availability very high latitudes warning system

Author Keywords

Not Available

References

No references available on IEEE Xplore.

Citing Documents

No citing documents available on IEEE Xplore.

Indexed by



EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	195	integrity with accuracy and satellite with navigation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/07/03 10:43
S1	8	("20040248559" "6667713" "6782330" "6850187").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/07/03 10:42